

## EAST Search History

Ref #	Hits	Search Query	DBs	Default Operator	Plurals	Time Stamp
S1	0	(captur\$3 and reference and transmi\$5 and digiti\$2 and retriev\$3 and stor\$3 and modulat\$3) and dataadjpacket	US-PGPUB; USPAT; USOCR; EPO; DERWENT; IBM_TDB	OR	OFF	2008/01/25 14:33
S2	122	(captur\$3 and reference and transmi\$5 and digiti\$2 and retriev\$3 and stor\$3 and modulat\$3) and data adj packet	US-PGPUB; USPAT; USOCR; EPO; DERWENT; IBM_TDB	OR	OFF	2006/03/08 11:43
S3	122	(captur\$3 and reference and transmi\$5 and digiti\$2 and retriev\$3 and stor\$3 and modulat\$3) and data adj1 packet	US-PGPUB; USPAT; USOCR; EPO; DERWENT; IBM_TDB	OR	OFF	2006/03/08 11:44
S4	155	(captur\$3 and reference and transmi\$5 and digiti\$2 and retriev\$3 and stor\$3 and modulat\$3 and packet and test\$3)	US-PGPUB; USPAT; USOCR; EPO; DERWENT; IBM_TDB	OR	OFF	2006/03/08 17:27
S5	11025	digitizing with signal	US-PGPUB; USPAT; USOCR; EPO; DERWENT; IBM_TDB	OR	OFF	2006/03/08 17:32
S6	362	S5 same test\$3	US-PGPUB; USPAT; USOCR; EPO; DERWENT; IBM_TDB	OR	OFF	2006/03/08 17:36
S7	27	S6 and ((modulating and demodulating) or (encoding and decoding))	US-PGPUB; USPAT; USOCR; EPO; DERWENT; IBM_TDB	OR	OFF	2007/05/16 18:32
S8	104	S6 and (modulating or demodulating or encoding or decoding)	US-PGPUB; USPAT; USOCR; EPO; DERWENT; IBM_TDB	OR	OFF	2006/03/08 17:36

## EAST Search History

S9	42	(S5 same test\$3).ab.	US-PGPUB; USPAT; USOCR; EPO; DERWENT; IBM_TDB	OR	OFF	2006/03/09 11:32
S10	50	("4839637" "5936902" "6243308" "4343868" "4594884" "5875177" "5602406" "5016220" "5367485" "6047344" "6316959" "6317372" "4323844" "4775977" "5393991" "5420796" "5621329" "5796943" "6057881" "6160713" "5698876" "5828673" "4956816" "5363382" "6317373" "6418072" "6418075" "6459630" "6469946" "6694500" "5774003" "5396501" "5231345" "5610927" "6430718" "6763488" "6769080" "5260947" "5701307" "5724367" "5847561" "5859860" "5872908" "5299168" "5388104" "5467356" "5689635" "5710779" "6108536" "6269036").pn.	USPAT	OR	OFF	2006/03/09 11:34
S11	0	((("4839637" "5936902" "6243308" "4343868" "4594884" "5875177" "5602406" "5016220" "5367485" "6047344" "6316959" "6317372" "4323844" "4775977" "5393991" "5420796" "5621329" "5796943" "6057881" "6160713" "5698876" "5828673" "4956816" "5363382" "6317373" "6418072" "6418075" "6459630" "6469946" "6694500" "5774003" "5396501" "5231345" "5610927" "6430718" "6763488" "6769080" "5260947" "5701307" "5724367" "5847561" "5859860" "5872908" "5299168" "5388104" "5467356" "5689635" "5710779" "6108536" "6269036").pn.) and trasmit\$3	USPAT	OR	OFF	2006/03/09 11:34

## EAST Search History

S12	47	((("4839637" "5936902" "6243308" "4343868" "4594884" "5875177" "5602406" "5016220" "5367485" "6047344" "6316959" "6317372" "4323844" "4775977" "5393991" "5420796" "5621329" "5796943" "6057881" "6160713" "5698876" "5828673" "4956816" "5363382" "6317373" "6418072" "6418075" "6459630" "6469946" "6694500" "5774003" "5396501" "5231345" "5610927" "6430718" "6763488" "6769080" "5260947" "5701307" "5724367" "5847561" "5859860" "5872908" "5299168" "5388104" "5467356" "5689635" "5710779" "6108536" "6269036").pn.) and signal	USPAT	OR	OFF	2006/03/09 11:35
S13	4	((("4839637" "5936902" "6243308" "4343868" "4594884" "5875177" "5602406" "5016220" "5367485" "6047344" "6316959" "6317372" "4323844" "4775977" "5393991" "5420796" "5621329" "5796943" "6057881" "6160713" "5698876" "5828673" "4956816" "5363382" "6317373" "6418072" "6418075" "6459630" "6469946" "6694500" "5774003" "5396501" "5231345" "5610927" "6430718" "6763488" "6769080" "5260947" "5701307" "5724367" "5847561" "5859860" "5872908" "5299168" "5388104" "5467356" "5689635" "5710779" "6108536" "6269036").pn.) and signal and binary	USPAT	OR	OFF	2006/03/09 11:35
S14	6341	(transmitting same receiving) and ("A/D" or (analog adj to adj digital)) and error and bit\$1	US-PGPUB; USPAT; USOCR; EPO; DERWENT; IBM_TDB	OR	ON	2006/03/10 12:01
S15	468	(transmitting same receiving) same ("A/D" or (analog adj to adj digital)) and error and bit\$1	US-PGPUB; USPAT; USOCR; EPO; DERWENT; IBM_TDB	OR	ON	2007/05/16 18:31
S16	384	(transmitting with receiving) same ("A/D" or (analog adj to adj digital)) and error and bit\$1	US-PGPUB; USPAT; USOCR; EPO; DERWENT; IBM_TDB	OR	ON	2006/03/10 12:17

## EAST Search History

S17	155	(transmitting with receiving) same ("A/D" or (analog adj to adj digital)) and (error with bit\$1)	US-PGPUB; USPAT; USOCR; EPO; DERWENT; IBM_TDB	OR	ON	2006/03/10 12:16
S18	119	((transmitting with receiving) same ("A/D" or (analog adj to adj digital)) and (error with bit\$1)) and stor\$3	US-PGPUB; USPAT; USOCR; EPO; DERWENT; IBM_TDB	OR	ON	2006/03/10 12:16
S19	33	((transmitting with receiving) same ("A/D" or (analog adj to adj digital)) and (error with bit\$1)) and stor\$3) not ("D/A" or (digital adj to adj analog))	US-PGPUB; USPAT; USOCR; EPO; DERWENT; IBM_TDB	OR	ON	2006/03/10 12:05
S20	53	((transmitting with receiving) same ("A/D" or (analog adj to adj digital)) and (error with bit\$1)) and stor\$3 and test\$3	US-PGPUB; USPAT; USOCR; EPO; DERWENT; IBM_TDB	OR	ON	2006/03/10 12:16
S21	59	(transmitting with receiving) same ("A/D" or (analog adj to adj digital)) and (error with bit\$1) and test\$3	US-PGPUB; USPAT; USOCR; EPO; DERWENT; IBM_TDB	OR	ON	2006/03/10 12:16
S22	113	(transmitting with receiving) same ("A/D" or (analog adj to adj digital)) and error and bit\$1 and test\$3	US-PGPUB; USPAT; USOCR; EPO; DERWENT; IBM_TDB	OR	ON	2006/03/10 15:13
S23	419	((transmitting and receiving) and ("A/D" or (analog adj to adj digital))).ab.	US-PGPUB; USPAT; USOCR; EPO; DERWENT; IBM_TDB	OR	ON	2006/03/10 15:19
S24	19	((transmitting and receiving) and test\$3 and ("A/D" or (analog adj to adj digital))).ab.	US-PGPUB; USPAT; USOCR; EPO; DERWENT; IBM_TDB	OR	ON	2006/03/10 15:18

## EAST Search History

S25	112	((transmitting and receiving) and stor\$3 and ("A/D" or (analog adj to adj digital))).ab.	US-PGPUB; USPAT; USOCR; EPO; DERWENT; IBM_TDB	OR	ON	2007/05/16 18:31
S26	16	((transmitting and receiving) and stor\$3 and ("A/D" or (analog adj to adj digital))).ab.	US-PGPUB; USPAT	OR	ON	2007/05/16 18:31
S27	114	"4704734"	USPAT	OR	OFF	2006/03/10 15:44
S28	7	"4485480"	USPAT	OR	OFF	2006/03/10 15:45
S29	148	"4485486"	USPAT	OR	OFF	2006/03/10 15:45
S30	0	"6831945" and correction	USPAT	OR	OFF	2006/07/16 18:12
S31	26	("4541091").URPN.	USPAT	OR	OFF	2007/01/11 12:11
S32	20	((("4541091").URPN.) and stor\$3	USPAT	OR	OFF	2007/01/11 12:52
S33	9214	modulat\$3 near3 stor\$3	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/01/11 12:53
S34	3689	(modulat\$3 near3 stor\$3) with signal	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/01/11 12:53
S35	67	"714"/\$.ccls. and (modulat\$3 near3 stor\$3) with signal	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/01/11 12:54
S36	768	((modulat\$3 near3 stor\$3) with signal).clm.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/01/11 12:53

## EAST Search History

S37	0	("714"/\$.ccls. and (modulat\$3 near3 stor\$3) with signal).clm.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/05/16 18:32
S38	0	("714"/\$.ccls. and (modulat\$3 near3 stor\$3) with signal).ab.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/01/11 12:54
S39	9	"4819236" and demodula\$4	USPAT	OR	OFF	2007/01/11 14:30
S40	7	"4819236" and modulat\$4 and stor\$4	USPAT	OR	OFF	2007/01/11 16:12
S41	6	"4819236" and frequency	USPAT	OR	OFF	2007/03/20 16:09
S42	4	"4819236" and frequency and demodula\$3	USPAT	OR	OFF	2007/05/16 18:33
S43	555	(transmitting same receiving) same ("A/D" or (analog adj to adj digital)) and error and bit\$1	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/05/16 18:31
S44	288	((transmitting and receiving) and stor\$3 and ("A/D" or (analog adj to adj digital))).ab.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/05/16 18:31
S45	288	((transmitting and receiving) and stor\$3 and ("A/D" or (analog adj to adj digital))).ab.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/05/16 18:31
S46	12353	digitizing with signal	US-PGPUB; USPAT; USOCR; EPO; DERWENT; IBM_TDB	OR	OFF	2007/05/16 18:32

## EAST Search History

S47	408	S46 same test\$3	US-PGPUB; USPAT; USOCR; EPO; DERWENT; IBM_TDB	OR	OFF	2007/05/16 18:32
S48	28	S47 and ((modulating and demodulating) or (encoding and decoding))	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2007/05/16 18:32
S49	4	"4819236" and frequency and demodula\$3	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2007/05/16 18:33
S50	27731	generat\$ with reference with transmi\$6	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2008/01/25 18:52
S51	17338	generat\$ with reference with transmi\$6 with signal	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2008/01/25 18:52
S52	1942	generat\$ near3 reference near3 transmi\$6 near3 signal	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2008/01/25 18:53
S54	8	generat\$ reference transmi\$6 signal	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	ADJ	ON	2008/01/25 18:56
S55	840	generat\$ near2 reference near2 transmi\$6 near2 signal	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2008/01/27 11:13
S56	77	(generat\$ near2 reference near2 transmi\$6 near2 signal) and ((test tester testing tested) with system)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2008/01/25 18:58

## EAST Search History

S57	80	(generat\$ near2 reference near2 transmi\$6 near2 signal) and ((test tester testing tested) with (communication system))	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2008/01/25 19:33
S58	53	(generat\$ near2 reference near2 transmi\$6 near2 signal) and ((test tester testing tested) with (communication system)) and modulat\$4	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2008/01/27 11:18
S59	52	(generat\$ near2 reference near2 transmi\$6 near2 signal) and ((test tester testing tested) with (communication system)) and modulat\$4 and frequency	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2008/01/25 19:35
S60	18	(generat\$ near2 reference near2 transmi\$6 near2 signal) and ((test tester testing tested) with (communication system)) and modulat\$4 and frequency and quadrature	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2008/01/25 19:36
S61	176	(generat\$ near2 reference near2 transmi\$6 near2 signal) and (test tester testing tested)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2008/01/27 11:16
S62	14	(generat\$ near2 reference near2 transmi\$6 near2 signal) and (test tester testing tested) and ("714"/\$. ccls. "370"/\$.ccls. 375/224.ccls. 455/99.ccls.)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2008/01/27 11:17
S63	53	(generat\$ near2 reference near2 transmi\$6 near2 signal) and ((test tester testing tested) with (communication system)) and modulat\$4	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2008/01/27 11:19
S64	62	S63 or S62	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2008/01/27 13:46



## EAST Search History

S74	102	("4403208" "4947171" "5877802" "5942957" "6160773" "5543859" "5638305" "6114890" "4370558" "4374396" "4486688" "4813031" "4926443" "5027207" "5185657" "5245262" "5289448" "5539477" "5561671" "5614803" "5687724" "5719932" "5734674" "5774795" "5786872" "5952897" "6011824" "6021234" "6054705" "6078514" "6119237" "6233347" "4310841" "4348683" "4358797" "4363977" "4364048" "4389536" "4434911" "4450589" "4458316" "4467411" "4486771" "4558381" "4577184" "4591805" "4767997" "4785472" "4856084" "4868572" ).pn.	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2008/01/27 14:52
S75	140	("20030088372" "4882737" "20050286440" "20060009959" "3558823" "3560633" "3562496" "3564143" "3564147" "3566033" "3566036" "3569939" "3571687" "3571799" "3571806" "3571957" "3573621" "3573622" "3573624" "3573741" "3573742" "3573749" "3575556" "3575557" "3576441" "3576494" "3579196" "3579200" "3581207" "3582782" "3582786" "3582884" "3585399" "3585595" "3585598" "3585599" "3585601" "3585606" "3586778" "3587044" "3587053" "3587058" "3590162" "3590381" "3590406" "3593290" "3595997" "3596254" "3597549" "3597742" ).pn.	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2008/01/27 14:52
S76	100	S74 or S75	US-PGPUB; USPAT	OR	ON	2008/01/27 14:53

Set	Items	Description
S1	7473	(UPCONVERT? OR UP()CONVERT? OR (INCREAS? OR HIGH???) (2N)CO-NVER? OR (CONVER? OR MODIF? OR ALTER? OR CHANG?) (2N)FREQUEN?) - (5N)SIGNAL?
S2	67615	(REFEREN? OR COMPAR? OR PRIMARY OR BENCHMARK? OR EXAMPL?) (- 3N)SIGNAL?
S3	6199	S2(5N)(GENERAT? OR PRODUC? OR CREATE? ? OR CREATING? OR CR- EATION? OR MADE? OR DEVELOP? OR YIELD? OR ORIGINAT? OR MAKE? - OR MAKING? OR INITIAT? OR INTRODUC? OR MANUFACT?)
S4	1040	(TEST??? OR CHECK? OR DIAGNOS? OR TROUBLE? OR EXAMIN? OR A- NALY?) (7N)((TELECOMM? OR COMMUNICATION?) (2N)(TRANSCIEVER? OR - RECEIVER?))
S5	99890	QUADRATUR?(2N)(FREQUEN? OR MODULAT?) OR PHASE? ?(2N)MODULA-T?
S6	25	S1 AND S3
S7	321	S1 AND S5
S8	11	S7 AND S2
S9	35	S6 OR S8
S10	31	RD (unique items)
S11	0	S1 AND S2:S3 AND S4 AND S5
S12	19	S10 AND PY=1978:2004
S13	0	S7 AND S4
S14	0	S1 AND S2 AND S4
File	2:INSPEC 1898-2008/Dec W5	(c) 2008 Institution of Electrical Engineers
File	6:NTIS 1964-2008/Jan W4	(c) 2008 NTIS, Intl Cpyrght All Rights Res
File	8:EI Compendex(R) 1884-2008/Jan W2	(c) 2008 Elsevier Eng. Info. Inc.
File	34:SciSearch(R) Cited Ref Sci 1990-2008/Jan W3	(c) 2008 The Thomson Corp
File	35:Dissertation Abs Online 1861-2007/Oct	(c) 2007 ProQuest Info&Learning
File	56:Computer and Information Systems Abstracts 1966-2008/Dec	(c) 2008 CSA.
File	60:ANTE: Abstracts in New Tech & Engineer 1966-2008/Dec	(c) 2008 CSA.
File	62:SPIN(R) 1975-2008/Jan W1	(c) 2008 American Institute of Physics
File	65:Inside Conferences 1993-2008/Jan 25	(c) 2008 BLDSC all rts. reserv.
File	95:TEME-Technology & Management 1989-2008/Jan W2	(c) 2008 FIZ TECHNIK
File	99:Wilson Appl. Sci & Tech Abs 1983-2007/Nov	(c) 2007 The HW Wilson Co.
File	111:TGG Natl.Newspaper Index(SM) 1979-2008/Jan 10	(c) 2008 The Gale Group
File	144:Pascal 1973-2008/Jan W2	(c) 2008 INIST/CNRS

File 239:Mathsci 1940-2008/Feb  
    (c) 2008 American Mathematical Society  
File 256:TecInfoSource 82-2008/Oct  
    (c) 2008 Info.Sources Inc  
File 434:SciSearch(R) Cited Ref Sci 1974-1989/Dec  
    (c) 2006 The Thomson Corp  
File 583:Gale Group Globalbase(TM) 1986-2002/Dec 13  
    (c) 2002 The Gale Group

Set	Items	Description
S1	19352	(UPCONVERT? OR UP()CONVERT? OR (INCREAS? OR HIGH???) (2N)CO-NVER? OR (CONVER? OR MODIF? OR ALTER? OR CHANG?) (2N)FREQUEN?) - (5N)SIGNAL?
S2	164564	(REFEREN? OR COMPAR? OR PRIMARY OR BENCHMARK? OR EXAMPL?) (- 3N)SIGNAL?
S3	35709	S2 (5N) (GENERAT? OR PRODUC? OR CREATE? ? OR CREATING? OR CR-EATION? OR MADE? OR DEVELOP? OR YIELD? OR ORIGINAT? OR MAKE? - OR MAKING? OR INITIAT? OR INTRODUC? OR MANUFACT?)
S4	217	(TEST??? OR CHECK? OR DIAGNOS? OR TROUBLE? OR EXAMIN? OR A-NALY?) (7N) ((TELECOMM? OR COMMUNICATION?) (2N) (TRANSCIVER? OR - RECEIVER?))
S5	24505	QUADRATUR? (2N) (FREQUEN? OR MODULAT?) OR PHASE? ? (2N)MODULA-T?
S6	99	S1 (100N) S3 (100N) S5
S7	0	S6 (100N) S4
S8	0	S1 (100N) S4 (100N) S5
S9	1	S4 (100N) S5
S10	30	S6 (100N) (UPCONVER? OR UP()CONVER?)
S11	0	S10 (100N) ((TELECOMM? OR COMMUNICATION?) (2N) (TRANSCIVER? OR RECEIVER?))
S12	0	S6 (100N) ((TELECOMM? OR COMMUNICATION?) (2N) (TRANSCIVER? OR RECEIVER?))
S13	26	S10 AND PY=1978:2004
S14	17	S10 AND (AC=US OR AC=US/PR) AND AY=1978:2004
S15	28	S13:S14
S16	28	S15 NOT S9
S17	100	S2 (100N) (UPCONVER? OR UP()CONVER?) (5N) SIGNAL? (20N) S5
S18	6	S17 (100N) (REFEREN? (3N) SIGNAL?) (100N) (QUADRATUR? (2N) FREQUEN-?)
S19	5	S18 NOT S16

File 348:EUROPEAN PATENTS 1978-2007/ 200804  
(c) 2008 European Patent Office  
File 349:PCT FULLTEXT 1979-2008/UB=20080117UT=20080110  
(c) 2008 WIPO/Thomson

Set	Items	Description
S1	30403	(UPCONVERT? OR UP()CONVERT? OR (INCREAS? OR HIGH???) (2N)CO-NVER? OR (CONVER? OR MODIF? OR ALTER? OR CHANG?) (2N)FREQUEN?)-(5N)SIGNAL?
S2	204220	(REFEREN? OR COMPAR? OR PRIMARY OR BENCHMARK? OR EXAMPL?) (-3N)SIGNAL?
S3	51773	S2(5N)(GENERAT? OR PRODUC? OR CREATE? ? OR CREATING? OR CR-EATION? OR MADE? OR DEVELOP? OR YIELD? OR ORIGINAT? OR MAKE? -OR MAKING? OR MANUFACT?)
S4	346	(TEST??? OR CHECK? OR DIAGNOS? OR TROUBLE? OR EXAMIN? OR A-NALY?) (7N)((TELECOMM? OR COMMUNICATION?) (2N)(TRANSCIEVER? OR -RECEIVER?))
S5	18607	QUADRATUR?(2N)(FREQUEN? OR MODULAT?) OR PHASE? ?()MODULAT?
S6	1881	S1 AND S3
S7	108	S6 AND S5
S8	0	S7 AND S4
S9	8	S4 AND S5
S10	108	S7 NOT S9
S11	100	S10 AND PY=1978:2004
S12	87	S10 AND PY=1978:2004 AND AC=US
S13	100	S11:S12
S14	6	S13 AND (UPCONVER? OR UPCONVER?)
S15	94	S13 NOT S14
S16	89	S15 AND (MODULAT? OR ENCOD?)
S17	5	S16 AND (TELECOMM? OR COMMUNICATION? OR COMM) (2N)(TRANSCIE-VER? OR RECEIVER?)
S18	84	S16 NOT S17
S19	2	S18 AND TRANSMI?(3N)(SAME OR UNCHANG? OR, CONSTANT?)

? ds;show files;logoff hold

Set	Items	Description
S1	30403	(UPCONVERT? OR UP()CONVERT? OR (INCREAS? OR HIGH???) (2N)CO-NVER? OR (CONVER? OR MODIF? OR ALTER? OR CHANG?) (2N)FREQUEN?)-(5N)SIGNAL?
S2	204220	(REFEREN? OR COMPAR? OR PRIMARY OR BENCHMARK? OR EXAMPL?) (-3N)SIGNAL?
S3	51773	S2(5N)(GENERAT? OR PRODUC? OR CREATE? ? OR CREATING? OR CR-EATION? OR MADE? OR DEVELOP? OR YIELD? OR ORIGINAT? OR MAKE? -OR MAKING? OR MANUFACT?)
S4	346	(TEST??? OR CHECK? OR DIAGNOS? OR TROUBLE? OR EXAMIN? OR A-NALY?) (7N)((TELECOMM? OR COMMUNICATION?) (2N)(TRANSCIEVER? OR -

RECEIVER?))

S5 18607 QUADRATUR?(2N) (FREQUEN? OR MODULAT?) OR PHASE?  
 ?())MODULAT?

S6 1881 S1 AND S3

S7 108 S6 AND S5

S8 0 S7 AND S4

S9 8 S4 AND S5

S10 108 S7 NOT S9

S11 100 S10 AND PY=1978:2004

S12 87 S10 AND PY=1978:2004 AND AC=US

S13 100 S11:S12

S14 6 S13 AND (UPCONVER? OR UPCONVER?)

S15 94 S13 NOT S14

S16 89 S15 AND (MODULAT? OR ENCOD?)

S17 5 S16 AND (TELECOMM? OR COMMUNICATION? OR  
 COMM) (2N) (TRANSCEI-  
 VER? OR RECEIVER?)

S18 84 S16 NOT S17

S19 2 S18 AND TRANSMI?(3N) (SAME OR UNCHANG? OR CONSTANT?)

File 350:Derwent WPIX 1963-2008/UD=200806  
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Set	Items	Description
S1	30403	(UPCONVERT? OR UP()CONVERT? OR (INCREAS? OR HIGH???) (2N)CO-
		NVER? OR (CONVER? OR MODIF? OR ALTER? OR CHANG?) (2N)FREQUEN?) -
		(5N)SIGNAL?
S2	204220	(REFEREN? OR COMPAR? OR PRIMARY OR BENCHMARK? OR EXAMPL?) (-
		3N)SIGNAL?
S3	51773	S2(5N)(GENERAT? OR PRODUC? OR CREATE? ? OR CREATING? OR CR-
		EATION? OR MADE? OR DEVELOP? OR YIELD? OR ORIGINAT? OR MAKE? -
		OR MAKING? OR MANUFACT?)
S4	346	(TEST??? OR CHECK? OR DIAGNOS? OR TROUBLE? OR EXAMIN?
OR A-		NALY?) (7N)((TELECOMM? OR COMMUNICATION?) (2N) (TRANSCIVER?
OR -		RECEIVER?))
S5	18607	QUADRATUR?(2N) (FREQUEN? OR MODULAT?) OR PHASE?
		?()MODULAT?
S6	1881	S1 AND S3
S7	108	S6 AND S5
S8	0	S7 AND S4
S9	8	S4 AND S5
S10	108	S7 NOT S9
S11	100	S10 AND PY=1978:2004
S12	87	S10 AND PY=1978:2004 AND AC=US
S13	100	S11:S12
S14	6	S13 AND (UPCONVER? OR UPCONVER?)
S15	94	S13 NOT S14
S16	89	S15 AND (MODULAT? OR ENCOD?)
S17	5	S16 AND (TELECOMM? OR COMMUNICATION? OR COMM) (2N) (TRANSCIE-
		VER? OR RECEIVER?)
S18	84	S16 NOT S17
S19	2	S18 AND TRANSMI?(3N) (SAME OR UNCHANG? OR CONSTANT?)
		? ds;show files;logoff hold

Set	Items	Description
S1	30403	(UPCONVERT? OR UP()CONVERT? OR (INCREAS? OR HIGH???) (2N)CO-
		NVER? OR (CONVER? OR MODIF? OR ALTER? OR CHANG?) (2N)FREQUEN?) -
		(5N)SIGNAL?
S2	204220	(REFEREN? OR COMPAR? OR PRIMARY OR BENCHMARK? OR EXAMPL?) (-
		3N)SIGNAL?
S3	51773	S2(5N)(GENERAT? OR PRODUC? OR CREATE? ? OR CREATING? OR CR-
		EATION? OR MADE? OR DEVELOP? OR YIELD? OR ORIGINAT? OR MAKE? -
		OR MAKING? OR MANUFACT?)
S4	346	(TEST??? OR CHECK? OR DIAGNOS? OR TROUBLE? OR EXAMIN?
OR A-		NALY?) (7N)((TELECOMM? OR COMMUNICATION?) (2N) (TRANSCIVER?
OR -		

RECEIVER?))

S5 18607 QUADRATUR?(2N) (FREQUEN? OR MODULAT?) OR PHASE?  
 ?()MODULAT?

S6 1881 S1 AND S3  
 S7 108 S6 AND S5  
 S8 0 S7 AND S4  
 S9 8 S4 AND S5  
 S10 108 S7 NOT S9  
 S11 100 S10 AND PY=1978:2004  
 S12 87 S10 AND PY=1978:2004 AND AC=US  
 S13 100 S11:S12  
 S14 6 S13 AND (UPCONVER? OR UPCONVER?)  
 S15 94 S13 NOT S14  
 S16 89 S15 AND (MODULAT? OR ENCOD?)  
 S17 5 S16 AND (TELECOMM? OR COMMUNICATION? OR  
 COMM) (2N) (TRANSCEI-  
 VER? OR RECEIVER?)

S18 84 S16 NOT S17  
 S19 2 S18 AND TRANSMI?(3N) (SAME OR UNCHANG? OR CONSTANT?)

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Application Number

IDS Flag Clearance for Application 10769971

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